

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

(Attorney Docket Nos. 109845.178 and TMRI-033US)

In re Application	on of: Guttman et al.) Examiner: To Be Assigned
Serial No.	10/047,461) Group Art Unit: 1764)
Filing Date:	January 14, 2002	ý
For: THIN F	FILM ELECTROPHORESIS APPARAT	TUS AND METHOD
*****	***********	*************
	CERTIFICATE OF FIRST CLASS N	MAILING UNDER 37 CFR §1.8
	at this correspondence is being deposited with the Patents, P.O. Box 1450, Alexandria, VA 22313-1	United States Postal Service as First Class Mail addressed to: 450 on the date below.
Date: 42/0	<u></u>	James Coughlan
*****	***********	*************
Commissioner	for Patents	
P.O. Box 1450		
Alexandria, VA	22313-1450	

TRANSMITTAL LETTER

Dear Sir:

Enclosed for filing in the above-identified patent application please find the following:

- 1. Supplemental Information Disclosure Statement (2 pages);
- 2. Form PTO-1449 Citing 7 References;
- 4. Certificate of First Class Mailing; and
- 5. Return Postcard.

No fees are believed to be due in connection with this submission. However, please charge any fees that might be due or credit any overpayment to our Deposit Account No. 08-0219.

If there are any questions, please call the undersigned at the number below.

Respectfully submitted,

HALE AND DORR LLP

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(617) 526-6000

(617) 526-5000 (Facsimile)

Ann-Louise Kerner, Reg. No. 33,523

Attorney/Agent for Applicants

HALE & DORR DOCKETING PATENT COOPERATION TREATY RE: 109845.179 Wor Action Date: 10.20.03 ·03

	A si da ka Taliana de E
	Action to be taken:
From the INTERNATIONAL SEARCHING AUTHORITY	PCT On: 8-25
To: HALE & DORR LLP Attn. KERNER, ANN-LOUISE 60 State Street Boston, MA 02109 UNITED STATES OF AMERICA	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OF THE DECLARATION AUG 2 2003 COCKET
,	Date of Pailing profess (day/morabless to 20/08/2003
Applicant's or agent's file reference 3, 1360.034W01	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No. PCT/US 02/00985	International filing date (day/month/year) 14/01/2002
Applicant	
SYNGENTA PARTICIPATIONS AG	
1. X The applicant is hereby notified that the International Search	h Banart has been established and is transmitted harewith
	r neport has been established and is transmitted herewith.
Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claim	ns of the International Application (see Rule 46):
When? The time limit for filing such amendments is normal international Search Report; however, for more de	
Where? Directly to the International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Fascimile No.: (41-22) 740.14.35	
For more detailed instructions, see the notes on the acco	mpanying sheet.
2. The applicant is hereby notified that no International Search Article 17(2)(a) to that effect is transmitted herewith.	n Report will be established and that the declaration under
3. With regard to the protest against payment of (an) addition	onal fee(s) under Rule 40.2, the applicant is notified that:
the protest together with the decision thereon has bee applicant's request to forward the texts of both the pro	on transmitted to the International Bureau together with the test and the decision thereon to the designated Offices.
no decision has been made yet on the protest; the app	olicant will be notified as soon as a decision is made.
4. Further action(s): The applicant is reminded of the following:	
Shortly after 18 months from the priority date, the international at If the applicant wishes to avoid or postpone publication, a notice priority claim, must reach the International Bureau as provided completion of the technical preparations for international publications.	e of withdrawal of the international application, or of the in Rules 90bis.1 and 90bis.3, respectively, before the
Within 19 months from the priority date, a demand for internation wishes to postpone the entry into the national phase until 30 months.	nal preliminary examination must be filed if the applicant onths from the priority date (in some Offices even later).
Within 20 months from the priority date, the applicant must perfo before all designated Offices which have not been elected in th priority date or could not be elected because they are not bound	ne demand or in a later election within 19 months from the

Name and mailing address of the International Searching Authority

European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Fax: (+31-70) 340-3016

Authorized officer

Cornelia Schulze

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19-except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

ূৰ্নিThe following examples illustrate the manner in which amendments must be explained in the e. accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers;
 claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."

"Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."

- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference		on of Transmittal of International Search Report SA/220) as well as, where applicable, item 5 below.
1360.034W01 International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/US 02/00985	14/01/2002	12/01/2001
Applicant	•	
SYNGENTA PARTICIPATIONS A		
SYNGENIA PARTICIPATIONS A		
This International Search Report has bee according to Article 18. A copy is being tr	n prepared by this International Searching a ransmitted to the International Bureau.	Authority and is transmitted to the applicant
	_	
This International Search Report consists		a
lt is also accompanied by	y a copy of each prior art document cited in	this report.
Basis of the report	- · · · · · · · · · · · · · · · · · · ·	
a. With regard to the language, the	international search was carried out on the	basis of the international application in the
_	less otherwise indicated under this item.	
the international search v Authority (Rule 23.1(b)).	vas carried out on the basis of a translation	of the international application furnished to this
b. With regard to any nucleotide ar		e international application, the international search
was carried out on the basis of th		
	ernational application in computer readable	form.
_	o this Authority in written form.	No.
· · ·	o this Authority in computer readble form.	
the statement that the su	bsequently furnished written sequence listin	ng does not go beyond the disclosure in the
	as filed has been furnished.	the state of the s
the statement that the interpretation furnished	ormation recorded in computer readable for	m is identical to the written sequence listing has been
2. Certain claims were fou	und unsearchable (See Box I).	
3. Unity of invention is lac	king (see Box II).	
· same by at a stage		
4. With regard to the title ,	ubmitted by the applicant.	
	shed by this Authority to read as follows:	
(He lext Has been establis	sted by this Additionty to read as follows.	
5. With regard to the abstract,		
	ubmitted by the applicant.	The state of the s
	shed, according to Hule 38.2(b), by this Auth e date of mailing of this international search	nority as it appears in Box III. The applicant may, report, submit comments to this Authority.
6. The figure of the drawings to be public	lished with the abstract is Figure No.	1
X as suggested by the appl		None of the figures.
because the applicant fail		
because this figure better	r characterizes the invention.	
	•	

International application No. PCT/US 02/00985

INTERNATIONAL SEARCH REPORT

Box I Obs rvati ns wh re certain claims w re found unsearchable (Continuati n of item 1 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-10, 26, 27, 33-36
The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

Form PCT/ISA/210 (continuation of first sheet (1)) (July 1998)

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-10,26,27,33-36

Method and system for delivering a plurality of samples into a separation medium.

2. Claims: 11-20,28-32

Method for data analysis and computer readable storage media for its implementation.

3. Claims: 21-25

Method for introducing a separation medium into an electrophoresis device.

INTERNATIONAL SEARCH REPORT

International Application No PCT/US 02/00985

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G01N27/447

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 $\begin{tabular}{ll} Minimum documentation searched (classification system followed by classification symbols) \\ IPC 7 & G01N \end{tabular}$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 00 65336 A (MJ RES INC) 2 November 2000 (2000-11-02) the whole document	1-3,33, 34
Α	the whole document	4-10
Y	ERFLE H ET AL: "SIMULTANEOUS LOADING OF 200 SAMPLE LANES FOR DNA SEQUENCING ON VERTICAL AND HORIZONTAL, STANDARD AND ULTRATHIN GELS" NUCLEIC ACIDS RESEARCH, OXFORD UNIVERSITY PRESS, SURREY, GB, vol. 25, no. 11, 1997, pages 2229-2230, XP000858128 ISSN: 0305-1048 the whole document	1-3,33,
Α		4-7,35, 36
	-/	

Further documents are listed in the continuation of box C.	X Patent family members are listed in annex.		
 Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filling date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed 	To later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family		
Date of the actual completion of the international search	Date of mailing of the international search report		
22 May 2003	2 0. 08. 2003		
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer BRISON O.P.		

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INTERNATIONAL SEARCH REPORT

International Application No PCT/US 02/00985

		101/03 02/00303
	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 911 631 A (SEBIA SA) 28 April 1999 (1999-04-28) claims 28,33	26,27
4	Craims Edgeo	1-7
4	US 5 338 426 A (SHIGEURA JOHN ET AL) 16 August 1994 (1994-08-16) column 8, line 43-51	1-10,33
	EP 0 492 769 A (WISCONSIN ALUMNI RES FOUND) 1 July 1992 (1992-07-01) abstract; claim 13; figure 3	1,33
	FR 2 560 220 A (INT BIOTECHNOLOGIES IN) 30 August 1985 (1985-08-30) page 9, line 20-23	1-5
	WO 00 68677 A (DAY IAN NICHOLAS MONSARRATT; RASSOULIAN HAMID (GB); UNIV SOUTHAMPT) 16 November 2000 (2000-11-16) abstract	1-5
-		

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/US 02/00985

D. A A. d	 T	Publication		Patent family		Publication
Patent document cited in search report	ļ	date		member(s)		date
WO 0065336	Α	02-11-2000	AU WO	4807600 0065336		10-11-2000 02-11-2000
EP 0911631	 A	28-04-1999	FR	2671290		10-07-1992
Eb 0311031	Д	20 04 1999	EP	0911631		28-04-1999
			ΑT		T	15-04-2000
			DE	69132095		11-05-2000
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EP 0492769	Α	01-07-1992	US	5137613		11-08-1992
21 0152,05	• •		ΑT	161632		15-01-1998
			CA	2049749 69128522		21-06-1992 05-02-1998
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			CA	1231671 3506953		19-01-1988 31-10-1985
			DE FR	2560220		30-08-1985
			GB	2154748		11-09-1985
			IL	74451	Α	31-07-1988
			JP	1917316		23-03-1995
			JP JP	6048260 60195444		22-06-1994 03-10-1985
			A 1 1	4E02200	Λ.	21-11-2000
WO 0068677	Α	16-11-2000	AU WO	4592200 0068677		16-11-2000